

Georgetown Municipal Water & Sewer Service Water Quality Report for year 2012

P.O. Box 640

Georgetown, KY 40324

Meetings: 125 W. Clinton St., Georgetown, KY 40324

Meeting Dates and Time: Third Tuesday of each month

indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system.

4:00 PM

KY1050157

Robert Wilhite Manager:

(502)863-7816 Phone:

CCR Contact: James Long Jr.

Phone: (502)863-7819 This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is the most

The source of your drinking water is the Royal Spring, which is classified as Groundwater Under the Direct Influence of Surface Water. GMWSS customer demand is supplemented each day by treated surface water purchased from Frankfort Plant Board and Kentucky-Amercian Water Company. GMWSS has completed a source water assessment plan and it may be viewed at the GMWSS Administration building during regular business hours.. It has been determined that the Royal Spring has a moderate susceptibility to potential contamination due to runoff from various sources in an urban environment. Frankfort has determined that the intake at Pool #4 on the Kentucky River generally has a moderate susceptibility to contamination due to activities in the watershed. Kentucky-American has determined that the Kentucky River intake at Jacobson Park are vulnerable to contamination from agriculture and urban storm water runoff.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (byproducts of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set as if present, elevated levels of lead can cause close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial high quality drinking water, but cannot contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCl/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Information About Lead:

serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or http://www.epa.gov/safewater/lead.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected. The detected contaminants found below also contain data reported by Frankfort Plant Board and Kentucky-American Water Company. GMWSS measurements labeled {G}, Frankfort measurements labeled {F}.

Company. GMWSS measuren		llowable	Highest Siz		Т	Lowest	Violation	T	
	Levels		* *		Monthly %		* 10:8000	Likely Source	
Turbidity (NTU) TT	No more t	han I NTU*	(F) 0.29		Ť				
* Representative samples	Less than 0.3 NTU in		(G) 0.29			100	No	Soil runoff	
of filtered water	1	onthly samples	(,						
Regulated Contaminar			L			·			
Contaminant			Report		Ran		Date of	Violation	Likely Source of
[code] (units) Radioactive Contamina	MCL	MCLG	Level	of I)ete	ction	Sample	<u> </u>	Contamination
Beta photon emitters (pCi/L)	50	0	7.90	{G} 7.9	to	7.9	Feb-10	No	Decay of natural and man-made deposits
Alpha emitters [4000] (pCi/L)	15	0	1.50	{G} 0.4	to	2.9	Mar-07	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	0.13	⟨G⟩ 0	to	0.4	Jun-07	No	Erosion of natural deposits
Uranium (µg/L)	30	0	1.25	{G} 1.2	to	1.3	Feb-10	No	Erosion of natural deposits
Inorganic Contaminan	ts						,		
Barium [1010] (ppm)	2	2	0.019 0.021	{ G } { F }		0.019 0.021	Feb-12 Feb-12	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.203 (90 th percentile)	{ G } 0.002	to	0.304	Jul-12	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	1.19 1.09		to to	1.19 1.09	Jul-12 Sep-13	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level	AL = 15	0	3.1 (90 th percentile)		to	18.9	Jul-12	No	Corrosion of household plumbing systems
Nickel (ppm) (US EPA remanded MCL in February 1995)	N/A	N/A	0.002	(G)		0.0022	Feb-12	No	N/A
Nitrate [1040] (ppm)	10	10	0.70 3.800	1 1.1	to to	0.7 3.8	Jan-12	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium [1045] (ppb)	50	50	2.0	{ G }		2.0	Feb-12	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Disinfectants/Disinfection	on Byproc	iucts and Pro	ecursors						
Total Organic Carbon (ppm)			1.10	{ iF } 1.00 t		2.67			
(measured as ppm, but	TT*	N/A	(lowest	{ G } 1.00 t	to	2.08	N/A	No	Naturally present in environment.
reported as a ratio)	<u> </u>		average)	(montl					
Monthly ratio is the % TOC re		ved to the % TO		red. Annual a	ver		nthly ratios mu	ist be 1.00 o	r greater for compliance.
Chloramines (ppm)	MRDL = 4	MRDLG = 4	2.21 (highest average)	(F) 1.1 t (G) 0.8 t		3.3 3.4	N/A	No	Water additive used to control microbes.
HAA (ppb) (all sites) Haloacetic acids]	60	N/A	24 (system average)		o o syst	45 54 em sites)	N/A	No	Byproduct of drinking water disinfection
THM (ppb) (all sites) total trihalomethanes]	80	N/A	36 (system average)	{F} 17 to {G} 17 to (range of :	0	60 75	N/A	No	Byproduct of drinking water disinfection.
Unregulated Contamina	MR 2)	average	range (ppb)			date			
-nitroso-dimethylamine (NDM		2.80	{F} 2.8 to	0	2.80	Aug-10			
EPA has not established drinki	ng water sta	indards for unre	gulated contan	unants. There	e ari	e no MCL's o	and therefore i	no violation:	s if found.